

Form PTO-1449 (Rev. 8-88)	O I P E M A R 2 9 2 0 0 6 U. S. PATENT & TRADEMARK OFFICE	Attorney Docket No. ILL05-041-US	Serial No. 10/756,825
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Applicant: Yi Lu	
		Filing Date: January 13, 2004	Group: 1645 1637

U.S. PATENT DOCUMENTS							
Examiner Initials*		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
SP	Z1	5,459,040	10/1995	Hammock, et al.			
	Z2	5,472,881	12/1995	Beebe, et al.			
	Z3	5,580,967	12/1996	Joyce			
	Z4	5,807,718	9/1998	Joyce, et al.			
	Z5	5,989,813	11/1999	Gerdes			
	Z6	6,706,474	03/2004	Lu, et al.			
	Z7	6,361,944	03/2002	Mirkin, et al.			
	Z8	6,451,535	9/2002	Jenne, A. et al.			
	Z9	6,040,138	03/2000	Lockhart, et al.			
	Z10	5,593,835	01/1997	Rando, et al.			
	Z11	5,663,064	09/1997	Burke, et al.			
↓	Z12	6,110,462	08/2000	Barbas, et al.			
	Z13	6,630,306	10/2003	Breaker			
SP	Z14	2003/0215810	11/2003	Lu, et al.			

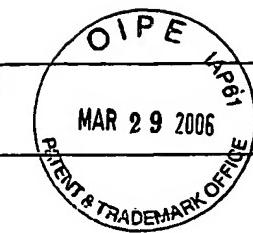
FOREIGN PATENT DOCUMENTS							
Examiner Initials*		Document Number	Date	Country	Class	Subclass	Translation
							Yes No
SP	Y1	WO 96/17086	6/1996	WO			
	Y2	WO 98/27104	6/1998	WO			
	Y3	WO 98/49346	11/1998	WO			
	Y4	WO 99/47704	9/1999	WO			X
	Y5	WO 00/26226	5/2000	WO			
↓	Y6	WO 02/000006	1/2002	WO			
SP	Y7	WO 03/094838	11/2003	WO			X

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U.S. DEPARTMENT OF COMMERCE**INFORMATION DISCLOSURE CITATION**  
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SP	Y8	WO 00/58505	10/2000	WO				X
	Y9	GB 2,339,280	1/2000	Great Britain				
	Y10	EP 1,219,708	7/2002	EP				
	Y11	EP 121970	10/1984	EP				
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	Y17	WO 03/095648	11/2003	WO				
	Y18	2004/081235	09/2004	WO				
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	Y20	WO 01/73123	10/2001	WO				
↓	Y21	WO 01/51665	07/2001	WO				
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SP	Y23	WO 98/04740	02/1998	WO				

Examiner Initials*		OTHER ITEMS - NON PATENT LITERATURE DOCUMENTS Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages		
SP	X1	Abstract of Joyce, G., "Design and catalytic activity of enzymic DNA molecules", (1998).		
	X2	Aggarwal, S.K., et al., "Determination of lead in urine and whole blood by stable isotope dilution gas chromatography-mass spectrometry", Clinical Chemistry, vol. 40, no. 8, pp. 1494-1502, (1994).		
	X3	Alivisatos, A.P., et al., "Organization of "nanocrystal molecules" using DNA", Nature, vol. 382, pp. 609-611, (1996).		
	X4	Allara, D. et al., "Spontaneously organized molecular assemblies. 1. Formation, dynamics and physical properties of n-alkanoic acids adsorbed from solution on an oxidized aluminum surface", Langmuir, vol. 1, no. 1, pp. 45-52, (1985).		
	X5	Andreola, M-L., et al., "DNA aptamers selected against the HIV-1 RNase H display in vitro antiviral activity", Biochemistry, vol. 40, no. 34, pp. 10087-10094, (2001).		
	X6	Bain, C. D., et al., "Modeling organic surfaces with self-assembled monolayers", Angew. Chem. Int. Ed. Engl., vol. 28, no. 4, pp. 506-512, (1989).		
↓	X7	Bannon, D.I., et al., "Graphite furnace atomic absorption spectroscopic measurement of blood lead in matrix-matched standards", Clinical Chemistry, vol. 40, no. 9, pp. 1730-1734, (1994).		
↓	X8	Been, M.D., et al., "Self-cleaving ribozymes of hepatitis delta virus RNA", Eur. J. Biochem., vol. 247, pp. 741-753, (1997).		
SP	X9	Berens, C., et al., "A tetracycline-binding RNA aptamer", Bioorganic & Medicinal Chemistry, vol. 9, pp. 2549-2556, (2001).		

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SP	X10	Biroccio, A., et al., "Selection of RNA aptamers that are specific and high-affinity ligands of the hepatitis C virus RNA-dependent RNA polymerase", <i>Journal of Virology</i> , vol. 76, no. 8, pp. 3688-3696, (2002).
	X11	Blake, D.A., et al., "Antibody-based sensors for heavy metal ions", <i>Biosensors &amp; Bioelectronics</i> , vol. 16, pp. 799-809, (2001).
	X12	Blank, M., et al., "Systematic evolution of a DNA aptamer binding to rat brain tumor microvessels. Selective targeting of endothelial regulatory protein pigpen", <i>Journal of Biological Chemistry</i> , vol. 276, no. 19, pp. 16464-16468, (2001).
	X13	Bock, L.C., et al., "Selection of single-stranded DNA molecules that bind and inhibit human thrombin", <i>Nature</i> , vol. 355, pp. 564-566, (1992).
	X14	Bogden, J.D., et al., "Soil contamination from lead in paint chips", <i>Bulletin of Environmental Contamination &amp; Toxicology</i> , vol. 14, no. 3, pp. 289-294, (1975).
	X15	Boiziau, C., et al., "DNA aptamers selected against the HIV-1 trans-activation-responsive RNA element form RNA-DNA kissing complexes", <i>Journal of Biological Chemistry</i> , vol. 274, no. 18, pp. 12730-12737, (1999).
	X16	Bowins, R.J., et al., "Electrothermal isotope dilution inductively coupled plasma mass spectrometry method for the determination of sub-nug ml <sup>-1</sup> levels of lead in human plasma", <i>Journal of Analytical Atomic Spectrometry</i> , vol. 9, pp. 1233-1236, (1994).
	X17	Breaker, R.R., "Catalytic DNA: in training and seeking employment", <i>Nature Biotechnology</i> , vol. 17, pp. 422-423, (1999).
	X18	Breaker, R.R., "DNA aptamers and DNA enzymes" <i>Current Opinion in Chemical Biology</i> , vol. 1, pp. 26-31, (1997).
	X19	Breaker, R.R., "DNA enzymes", <i>Nature Biotechnology</i> , vol. 15, pp. 427-431, (1997).
	X20	Breaker, R.R., "MOLECULAR BIOLOGY: Making Catalytic DNAs", <i>Science</i> , vol. 290, issue 5499, pp. 2095-2096, (2000).
	X21	Breaker, R.R., et al., "A DNA enzyme that cleaves RNA", <i>Chemistry &amp; Biology</i> , vol. 1, no. 4, pp. 223-229, (1994).
	X22	Breaker, R.R., et al., "A DNA enzyme with Mg <sup>2+</sup> -dependent RNA phosphoesterase activity", <i>Chemistry &amp; Biology</i> , vol. 2, no. 10, pp. 655-660, (1995).
	X23	Breaker, R.R., et al., "Engineered allosteric ribozymes as biosensor components", <i>Current Opinion in Biotechnology</i> , vol. 13, pp. 31-39, (2002).
	X24	Brody, E.N., et al., "Aptamers as therapeutic and diagnostic agents", <i>Reviews in Molecular Biotechnology</i> , vol. 74, pp. 5-13, (2000).
	X25	Broude, N.E., "Stem-loop oligonucleotides: a robust tool for molecular biology and biotechnology", <i>Trends in Biotechnology</i> , vol. 20, no. 6, pp. 249-256, (2002).
	X26	Brown, A.K., et al., "A lead-dependent DNAzyme with a two-step mechanism", <i>Biochemistry</i> , vol. 42, no. 23, pp. 7152-7161, (2003).
	X27	Bruesehoff, P.J., et al., "Improving metal ion specificity during In Vitro selection of catalytic DNA", <i>Combinatorial Chemistry &amp; High Throughput Screening</i> , vol. 5, pp. 327-335, (2002).
	X28	Bruno, J.G., et al., "In vitro selection of DNA aptamers to anthrax spores with electrochemiluminescence detection", <i>Biosensors &amp; Bioelectronics</i> , vol. 14, pp. 457-464, (1999).
	X29	Bruno, J.G., et al., "Use of magnetic beads in selection and detection of biotoxin aptamers by electrochemiluminescence and enzymatic methods", <i>BioTechniques</i> , vol. 32, no. 1, pp. 178-180, pp. 182-183, (2002).
	X30	Brust, M., et al., "Novel gold-dithiol nano-networks with non-metallic electronic properties", <i>Advanced Materials</i> , vol. 7, no. 9, pp. 795-797, (1995)
V	X31	Burdette, S.C., et al., "Fluorescent Sensors for Zn <sup>2+</sup> Based on a Fluorescein Platform: Synthesis, Properties and Intracellular Distribution", <i>J. Am. Chem. Soc.</i> , vol. 123, no. 32, pp. 7831-7841, (2001).
	X32	Burgstaller, P., et al., "Isolation of RNA aptamers for biological cofactors by in vitro selection", <i>Angew. Chem. Int. Ed. Engl.</i> , vol. 33, no. 10, pp. 1084-1087, (1994).
SP	X33	Burgstaller, P., et al., "Structural probing and damage selection of citrulline- and arginine-specific RNA aptamers identify base positions required for binding", <i>Nucleic Acids Research</i> , vol. 23, no. 23, pp. 4769-4776, (1995).

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SP	X34	Burke, D.H., et al., "A Novel Acidophilic RNA Motif That Recognizes Coenzyme A", Biochemistry, vol. 37, no. 13, pp. 4653-4663, (1998).	
	X35	Burke, D.H., et al., "RNA aptamers to the adenosine moiety of S-adenosyl methionine: structural inferences from variations on a theme and the reproducibility of SELEX", Nucleic Acids Research, vol. 25, no. 10, pp. 2020-2024, (1997).	
	X36	Burke, D.H., et al., "RNA aptamers to the peptidyl transferase inhibitor chloramphenicol", Chemistry & Biology, vol. 4, no. 11, pp. 833-843, (1997).	
	X37	Burmeister, J., et al., "Cofactor-assisted self-cleavage in DNA libraries with a 3'- 5'-phosphoramidate bond", Angew. Chem. Int. Ed. Engl., vol. 36, no. 12, pp. 1321-1324, (1997).	
	X38	Burwell Jr., R.L., "Modified silica gels as adsorbents and catalysts", Chemical Technology, 4, pp. 370-377, (1974).	
	X39	Cadwell, R.C., et al., "Mutagenic PCR", PCR Methods and Applications, vol. 3, pp. S136-S140, (1994).	
	X40	Cadwell, R.C., et al., "Randomization of genes by PCR mutagenesis", PCR Methods and Applications, vol. 2, pp. 28-33, (1992).	
	X41	Cade, K.M., et al., "In vivo x-ray fluorescence of bone lead in the study of human lead metabolism: serum lead, whole blood lead, bone lead, and cumulative exposure", Advances in X-Ray Analysis, vol. 38, pp. 601-606, (1995).	
	X42	Camara Rica, C., et al., "Determination of trace concentrations of lead and nickel in human milk by electrothermal atomisation atomic absorption spectrophotometry and inductively coupled plasma emission spectroscopy", The Science of the Total Environment, vol. 22, pp. 193-201, (1982).	
	X43	Cao, Y.W., et al., "DNA-modified core-shell Ag/Au nanoparticles", J. Am. Chem. Soc., vol. 123, no. 32, pp. 7961-7962, (2001).	
	X44	Carmi, N., et al., "Cleaving DNA with DNA", Proc. Natl. Acad. Sci. USA, vol. 95, pp. 2233-2237, (1998).	
	X45	Carmi, N., et al., "In vitro selection of self-cleaving DNAs", Chemistry & Biology, vol. 3, no. 12, pp. 1039-1046, (1996).	
	X46	Cech, T.R., "Structure and mechanism of the large catalytic RNAs: group I and group II introns and ribonuclease P", The RNA World, pp. 239-269, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, (1993).	
	X47	Cech, T.R., et al., "Group I ribozymes: substrate recognition, catalytic strategies, and comparative mechanistic analysis", Nucleic Acids and Molecular Biology, vol. 10, pp. 1-17, (1996).	
	X48	Chaloin, L., et al., "Endogenous expression of a high-affinity pseudoknot RNA aptamer suppresses replication of HIV-1", Nucleic Acids Research, vol. 30, no. 18, pp. 4001-4008, (2002).	
	X49	Chapman, K.B., et al., "In vitro selection of catalytic RNAs", Current Opinion in Structural Biology, vol. 4, pp. 618-622, (1994).	
	X50	Chartrand, P., et al., "Effect of structural modifications on the activity of the leadzyme", Biochemistry, vol. 36, no. 11, pp. 3145-3150, (1997).	
	X51	Chen, J., et al., "Synthesis from DNA of a molecule with the connectivity of a cube", Nature, vol. 350, pp. 631-633, (1991).	
	X52	Chen, C.-T., et al., "A highly selective fluorescent chemosensor for lead ions", J. Am. Chem. Soc., vol. 124, pp. 6246-6247, (2002).	
	X53	Chen, J.-H., et al., "A specific quadrilateral synthesized from DNA branched junctions", J. Am. Chem. Soc., vol. 111, no. 16, pp. 6402-6407, (1989).	
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V	X56	Ciesiolka, J., et al., "Selection of an RNA domain that binds Zn <sup>2+</sup> ", RNA, vol. 1, pp. 538-550, (1995).	
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P A T E N T & T R A D E M A R K O F F I C EAttorney Docket No.  
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SP	X58	Conaty, J., et al., "Selected classes of minimised hammerhead ribozyme have very high cleavage rates at low Mg <sup>2+</sup> concentration", Nucleic Acids Research, vol. 27, no. 11, pp. 2400-2407, (1999).
	X59	Conn, M.M., et al., "Porphyrin Metalation Catalyzed by a Small RNA Molecule", J. Am. Chem. Soc., vol. 118, no. 29, pp. 7012-7013, (1996).
	X60	Connell, G.J., et al., "RNAs with dual specificity and dual RNAs with similar specificity", Science, New Series, vol. 264, issue 5162, pp. 1137-1141, (1994).
	X61	Connell, G.J., et al., "Three small ribooligonucleotides with specific arginine sites", Biochemistry, vol. 32, no. 21, pp. 5497-5502, (1993).
	X62	Cuenoud, B., et al., "A DNA metalloenzyme with DNA ligase activity", Nature, vol. 375, pp. 611-614, (1995).
	X63	Czarnik, A.W., "Desperately seeking sensors", Chemistry & Biology, vol. 2, no. 7, pp. 423-428, (1995).
	X64	Dai, X., et al., "Cleavage of an amide bond by a ribozyme", Science, New Series, vol. 267, issue 5195, pp. 237-240, (1995).
	X65	Davis, J.H., et al., "Isolation of high-affinity GTP aptamers from partially structured RNA libraries", Proc. Natl. Acad. Sci. USA, vol. 99, no. 18, pp. 11616-11621, (2002).
	X66	Davis, K.A., et al., "Staining of cell surface human CD4 with 2'-F-pyrimidine-containing RNA aptamers for flow cytometry", Nucleic Acids Research, vol. 26, no. 17, pp. 3915-3924, (1998).
	X67	Definition of the word "ion" printed from Merriam-Webster online dictionary ( <a href="http://www.m-w.com">www.m-w.com</a> ) on June 30, 2004.
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	X69	Deo, S., et al., "A Selective, Ratiometric Fluorescent Sensor for Pb <sup>2+</sup> ", J. Am. Chem. Soc., vol. 122, no. 1, pp. 174-175, (2000).
	X70	Derose, V.J., "Two Decades of RNA Catalysis", Chemistry & Biology, vol. 9, pp. 961-969, (2002).
	X71	Didenko, V.V., "DNA probes using fluorescence resonance energy transfer (FRET): Designs and applications", BioTechniques, vol. 31, pp. 1106-1121, (2001). We have reference, but we are missing pp. 1119-1121.
	X72	Doudna, J.A., et al., "The Chemical Repertoire of Natural Ribozymes", Nature, vol. 418, pp. 222-228, (2002).
	X73	Dubois, L.H., et al., "Synthesis, structure, and properties of model organic surfaces", Annu. Rev. Phys. Chem., vol. 43, pp. 437-463, (1992).
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	X75	Ekland, E.H., et al., "RNA-catalysed RNA polymerization using nucleoside triphosphates", Nature, vol. 382, pp. 373-376, (1996).
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	X78	Ellington, A.D., et al., "Aptamers as potential nucleic acid pharmaceuticals", Biotechnology Annual Review, vol. 1, pp. 185-214, (1995).
	X79	Ellington, A.D., et al., "In vitro selection of RNA molecules that bind specific ligands", Nature, vol. 346, pp. 818-822, (1990).
	X80	Ellington, A.D., et al., "Selection in vitro of single-stranded DNA molecules that fold into specific ligand-binding structures", Nature, vol. 355, pp. 850-852, (1992).
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SP	X84	Famulok, M., et al., "Stereospecific recognition of tryptophan agarose by in vitro selected RNA", J. Am. Chem. Soc., vol. 114, no. 10, pp. 3990-3991, (1992).
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	X86	Faulhammer, D., et al., "The Ca <sup>2+</sup> ion as a cofactor for a novel RNA-cleaving deoxyribozyme", Angew. Chem., Int. Ed. Engl., vol. 35, no. 23/24, pp. 2837-2841, (1996).
	X87	Feldman, B.J., et al., "Determination of lead in blood by square wave anodic stripping voltammetry at a carbon disk ultramicroelectrode", Analytical Chemistry, vol. 66, no. 13, pp. 1983-1987, (1994).
	X88	Ferguson, A., et al., "A novel strategy for selection of allosteric ribozymes yields riboreporter™ sensors for caffeine and aspartame", Nucleic Acids Research, vol. 32, no. 5, pp. 1756-1766, (2004).
	X89	Fodor, S.P.A., et al., "Light-directed, spatially addressable parallel chemical synthesis", Science, New Series, vol. 251, issue 4995, pp. 767-773, (1991).
	X90	Frank, D.N., et al., "In vitro selection for altered divalent metal specificity in the RNase P RNA", Proc. Natl. Acad. Sci. USA, vol. 94, pp. 14355-14360, (1997).
	X91	Frens, G., et al., "Controlled Nucleation for the regulation of the particle size in monodisperse gold suspensions", Nature Physical Science, vol. 241, pp. 20-22, (1973).
	X92	Fukusaki, E-I., et al., "DNA aptamers that bind to chitin", Bioorganic & Medicinal Chemistry letters, vol. 10, pp. 423-425, (2000).
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	X94	Geyer, C.R., et al., "Evidence for the metal-cofactor independence of an RNA phosphodiester-cleaving DNA enzyme", Chemistry & Biology, vol. 4, no. 8, pp. 579-593, (1997).
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	X96	Giver, L., et al., "Selection and design of high-affinity RNA ligands for HIV-1 Rev", Gene, vol. 137, pp. 19-24, (1993).
	X97	Giver, L., et al., "Selective optimization of the Rev-binding element of HIV-1", Nucleic Acids Research, vol. 21, no. 23, pp. 5509-5516, (1993).
	X98	Godwin, H.A., et al., "A Fluorescent Zinc Probe Based on Metal-Induced Peptide Folding", J. Am. Chem. Soc., vol. 118, pp. 6514-6515, (1996).
	X99	Grabar, K., et al., "Preparation and characterization of Au colloid Monolayers", Analytical chemistry, vol 67, no. 4, pp. 735-743, (1995).
	X100	Granadillo, V.A., et al., "The influence of the blood levels of lead, aluminum and vanadium upon the arterial hypertension", Clinica Chimica Acta, vol. 233, pp. 47-59, (1995).
	X101	Grate, D., et al., "Laser-mediated, site-specific inactivation of RNA transcripts", Proc. Natl. Acad. Sci. USA, vol. 96, pp. 6131-6136, (1999).
	X102	Guschin, D., et al., "Manual manufacturing of oligonucleotide, DNA, and protein microchips", Analytical Biochemistry, vol. 250, pp. 203-211, (1997).
	X103	Haller, A.A., et al., "In vitro selection of a 7-methyl-guanosine binding RNA that inhibits translation of capped mRNA molecules", Proc. Natl. Acad. Sci. USA, vol. 94, pp. 8521-8526, (1997).
	X104	Harada, K., et al., "Identification of two novel arginine binding DNAs", The EMBO Journal, vol. 14, no. 23, pp. 5798-5811, (1995).
	X105	Hartig, J.S., et al., "Reporter ribozymes for real-time analysis of domain-specific interactions in biomolecules: HIV-1 reverse transcriptase and the primer-template complex", Angew. Chem. Int. Ed., vol. 41, no. 22, pp. 4263-4266, (2002).
	X106	He, X-x., et al., "Bioconjugated nanoparticles for DNA protection from cleavage", J. Am. Chem. Soc., vol. 125, no. 24, pp. 7168-7169, (2003).
▼	X107	Hennrich, G., et al., "Redox switchable fluorescent probe selective for either Hg(II) or Cd(II) and Zn(II)", J. Am. Chem. Soc., vol. 121, no. 21, pp. 5073-5074, (1999).
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SP	X109	Hesselberth, J.R., et al., "Simultaneous detection of diverse analytes with an aptazyme ligase array", Analytical Biochemistry vol. 312, pp. 106-112, (2003).
	X110	Ho, H-A., et al., "Optical sensors based on hybrid aptamer/conjugated polymer complexes", J. Am. Chem. Soc., vol 126, no. 5, pp. 1384-1387, (2004).
	X111	Hock, B., "Antibodies for immunosensors, A review", Analytica Chimica Acta, vol. 347, pp. 177-186, (1997).
	X112	Hofmann, H.P., et al., "Ni <sup>2+</sup> -binding RNA motifs with an asymmetric purine-rich internal loop and a G-A base pair", RNA, vol. 3, pp. 1289-1300, (1997).
	X113	Holeman, L.A., et al., "Isolation and characterization of fluorophore-binding RNA aptamers", Folding & Design, vol. 3, pp. 423-431, (1998).
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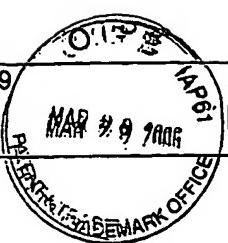
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